

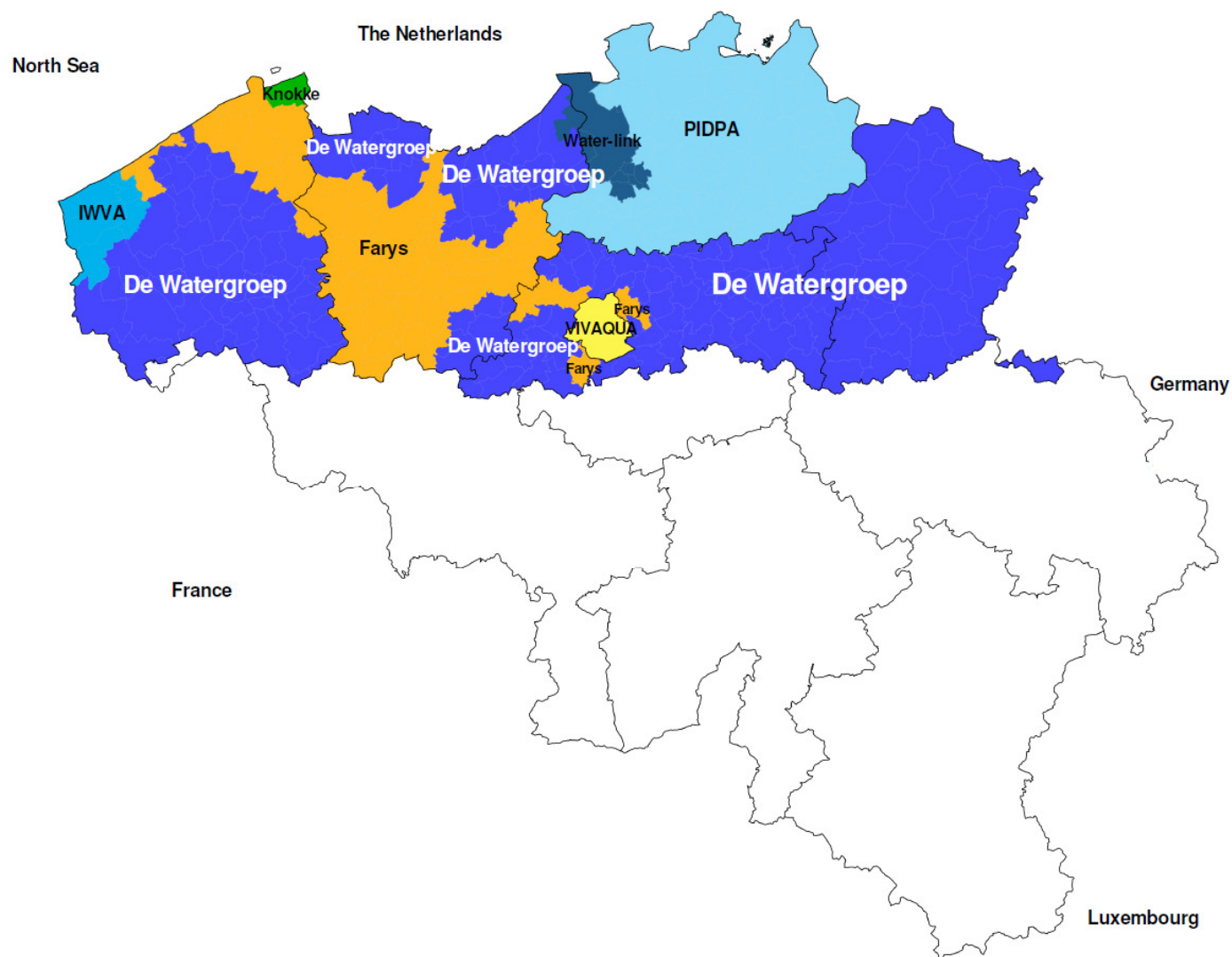


# Our drinking water supply, driven by challenges

Tom Diez, manager Water Resources and Environment

KINDRA Final Conference, 27 February 2018

# Water sector in Flanders



**De Watergroep**  
WATER VANDAG EN MORGEN



# Who are we?

- Founded in 1913  
=> **More than 100 years of history**



3.300.000

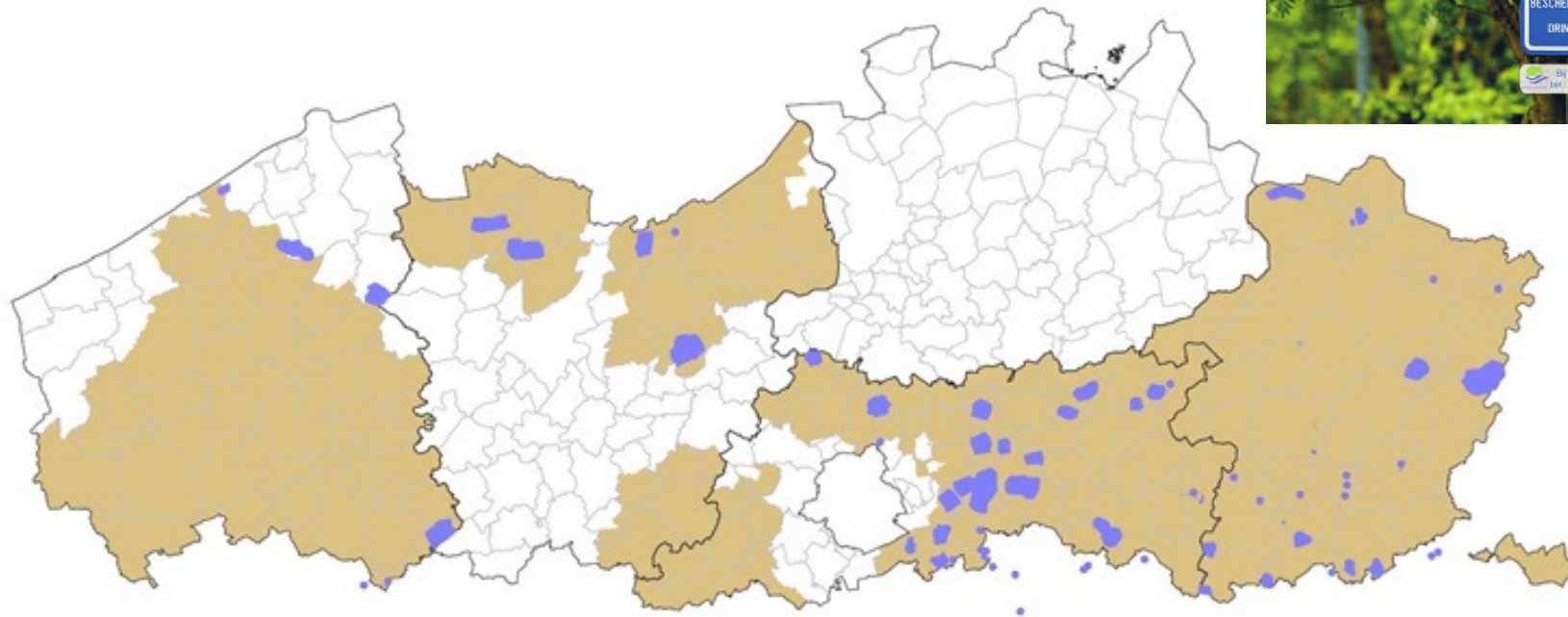


85 groundwater  
5 surface water



130.000.000 m<sup>3</sup>/y





unfractured ↔ fractured      undep vulnerability ↔ deep vulnerability

confined ↔ unconfined      sand ↔ chalk

unconsolidated ↔ consolidated      tuff ↔ limestone



De Watergroep  
WATER VANDAG EN MORGEN



# IN A CHANGING WORLD





# Our drinking water supply challenge



- today and tomorrow
- a source of life and health

➡ Source protection and management



# Protecting and managing drinking water sources

- **Water Framework Directive**

- Article 7 – Drinking water abstraction
  - necessary protection for **avoiding** deterioration in quality
  - in order to **reduce** the level of purification treatment



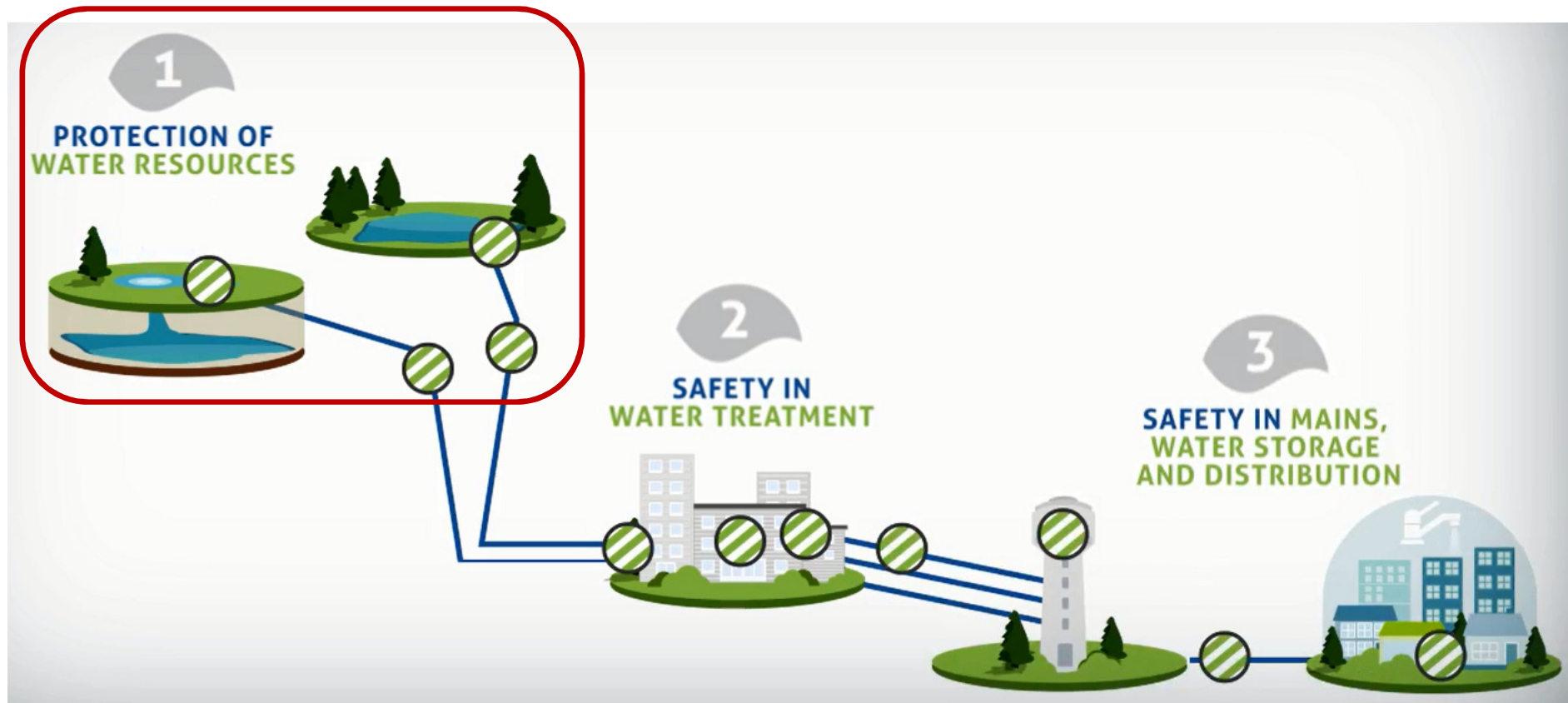
# Protecting and managing drinking water sources



## Revision of the Drinking Water Directive



# Providing safe and secure drinking water



← Risk assessment from catchment to tap →

## Water operators

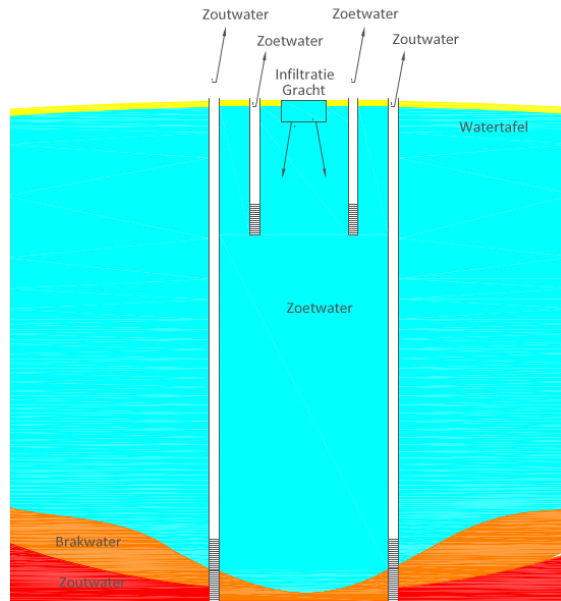
Among one of the main actors in  
the **protection**  
& **management**  
of (ground)water resources



Need for practical scientific knowledge

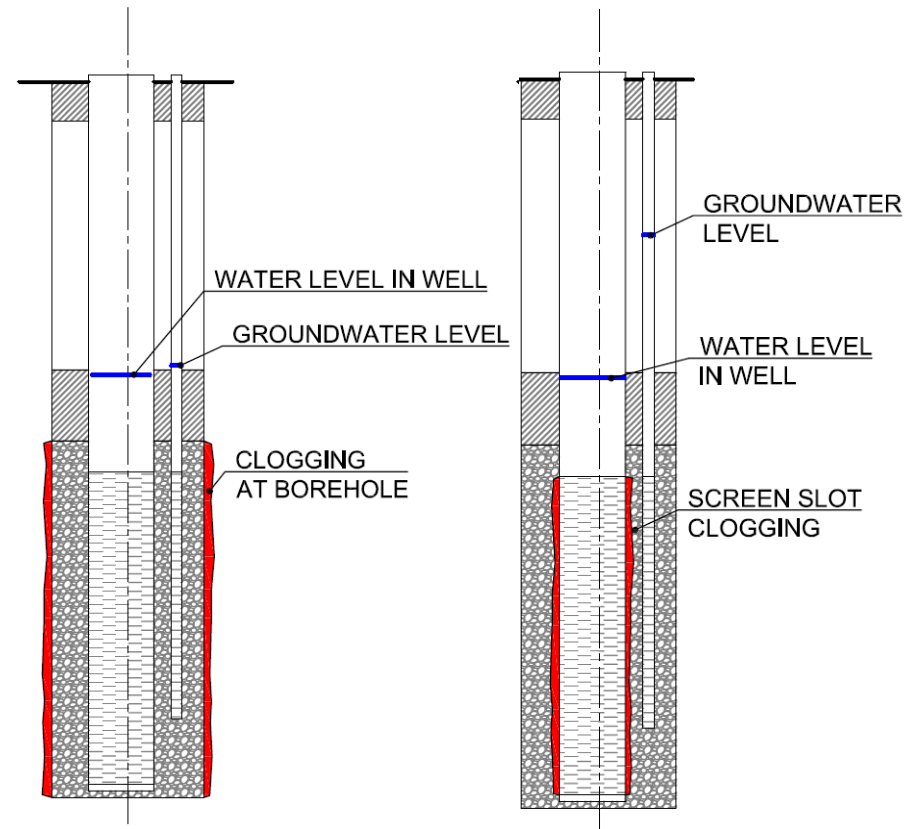


# Some examples



Managed Aquifer Recharge

## Well clogging

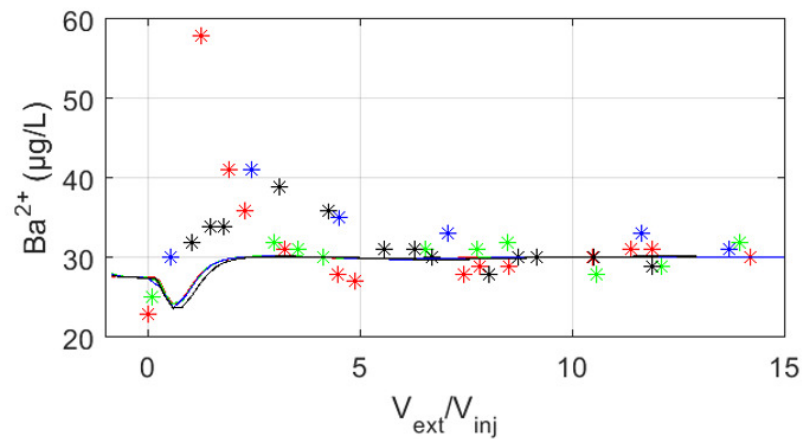
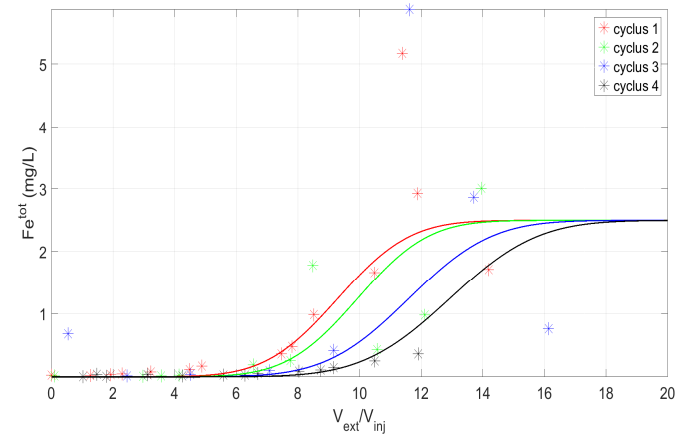
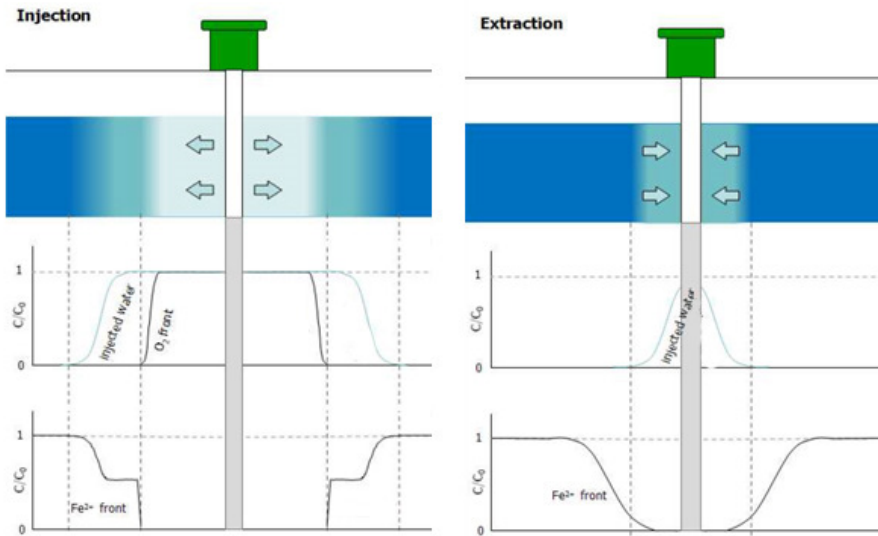


Mechanical

Chemical

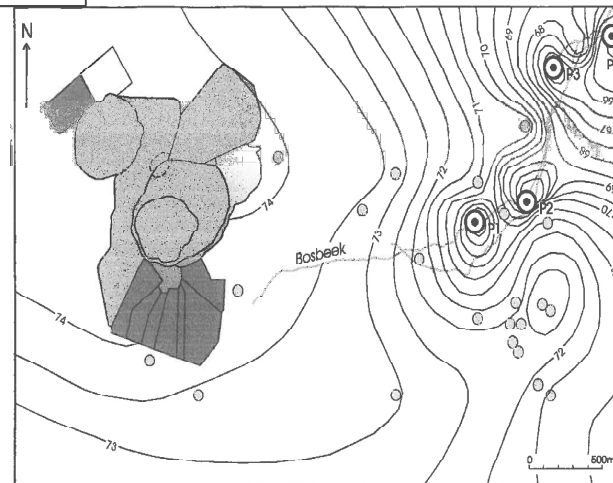
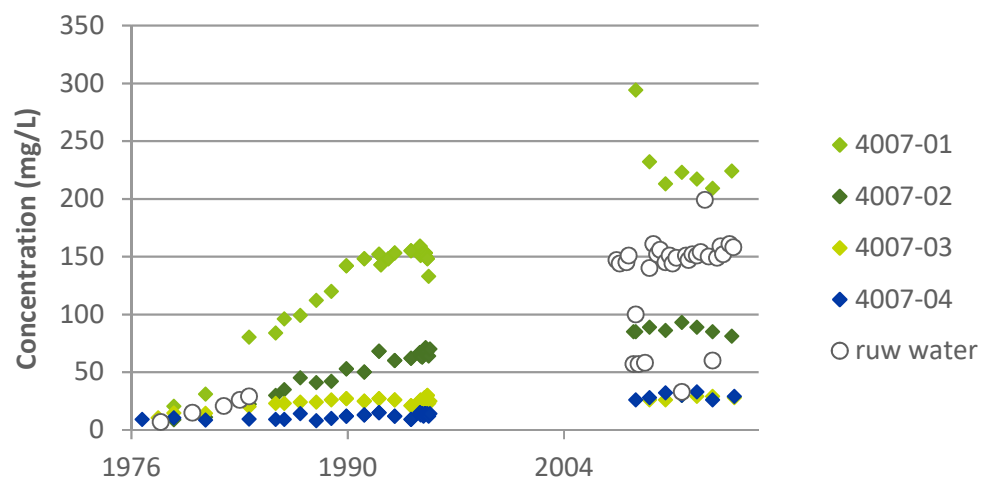
# Some Examples

## Subsurface Iron Removal

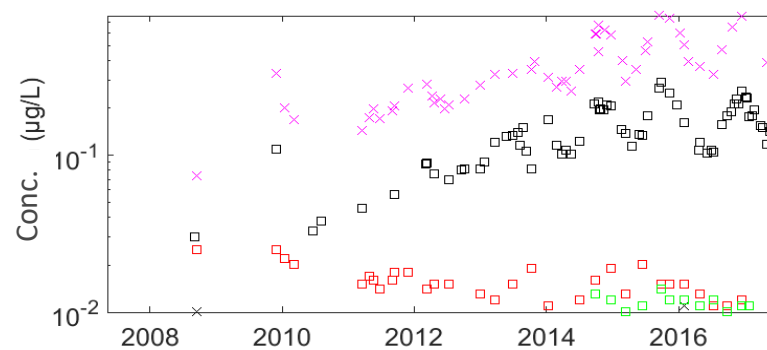


## Some examples

## Former mining activities



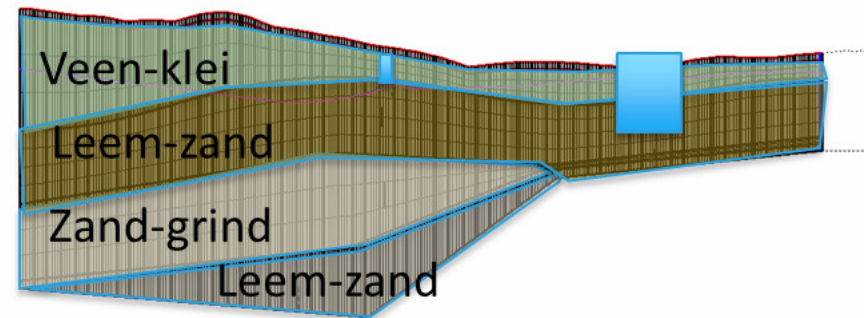
## Contaminants of emerging concern



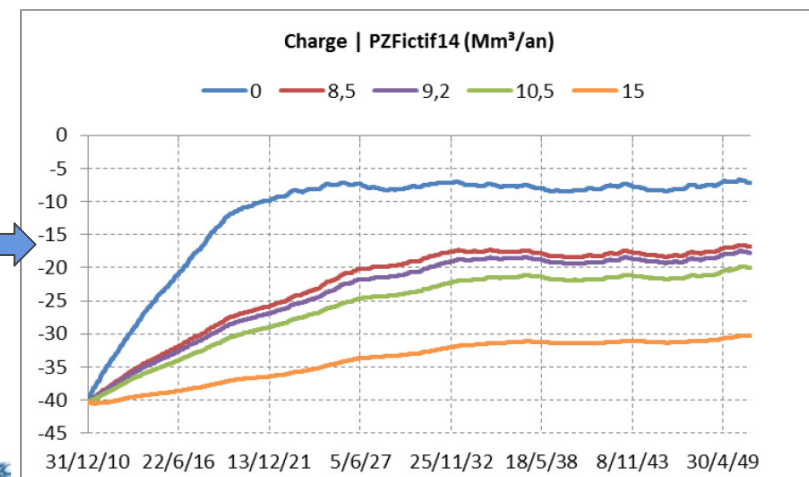
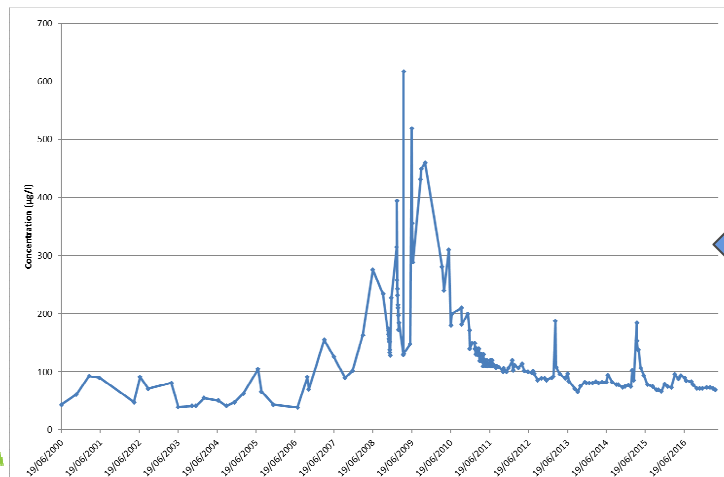


# Some examples

## Ground- Surface water interaction



## Sustainable groundwater management



# Some examples

New strategy and policy development for source protection





➡ **Bridging the gap between knowledge and their application**

➡ **Improve source water protection and management**

- *strengthening* prevention & protection strategies
- *implementing* innovative solutions
- *communicating* with reliable scientific information
- *creating* networks between scientists and water operators
- *enforcing* governmental protection policies

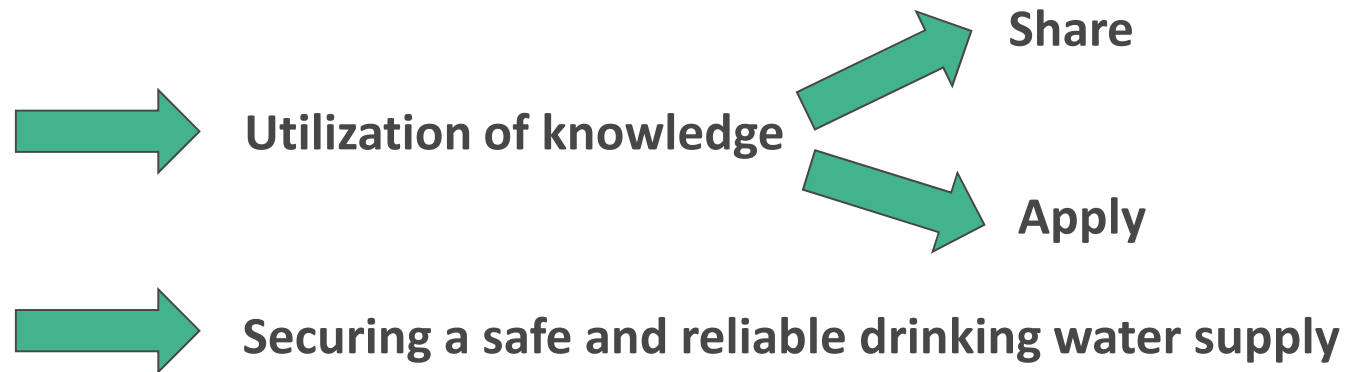


## KINDRA Results

- You've *made* it
- Let's *feed* it
- To *keep* it
- So we can *use* it!



## Conclusions





# Questions?

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